B. Sc. IT 2ndSemester

Course Title: Data Structure through C

Time: 2 and half hrs.

Session: 2011

BIT: 203

MAX Marks: 80

Note: Attempt all the questions from Section A and Section B and only two questions from Section C.

Section A: (Very Short Answer Type Questions)

Q1.

What is data structure?

To search an item in the list 100 items, what is the maximum attempt required using Binary

What is the return type of malloc()?

What is dynamic array?

Give an example in C to represent a tree.

Vi What is the meaning of static implementation?

What is D-queue? VII.

What is the syntax of calloc()?

Section B: (Short Answer Type Questions)

- Q2/Write a program in C to search a particular name in the list of names of student using any search
- Q3. Write a program in C for static implementation of Queue.
 - 04. How to pass structure variables to a function? Explain using a program example,
 - Q5. Write a program for creation display of doubly linked list.

Section C: (Long Answer Type Questions)

Q6. Write a program in C to delete and insert an element in an array of numbers.

Q7. Write a program in C to convert from infix to prefix. Also, explain the concept with the help of

Q8a. What is array of pointers? Explain with the help of suitable examples. b, Explain the different types of memory allocation.

Q9. Write a program in C to do the following:-

- a) Create a linked list.
- b) Display the contents of the linked list.
- c) Reverse the contents of the linked list.

